



Receipt date: 04/09/2007

1059402 Date AU-1703
Attorney Docket No. 1034136-000036

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
Steven A. Stevenson) Group Art Unit: Unassigned
Application No.: 10/594,026) Examiner: Unassigned
Filing Date: September 25, 2006) Confirmation No.: Unassigned
Title: METHOD OF MAKING MULTIPLE)
CARBONACEOUS NANOMATERIALS)

SECOND
INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed is a Second Information Disclosure Statement (IDS) and accompanying form PTO-1449 for the above-identified patent application.

- No additional fee for submission of an IDS is required.
- The fee of \$ 180 as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- A statement under 37 C.F.R. § 1.97(e), and the fee of \$ 180 as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- Charge _____ to Deposit Account No. 02-4800 for the fee due.
- A check in the amount of _____ is enclosed for the fee due.
- Charge _____ to credit card for the fee due. Form PTO-2038 is attached.
- The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

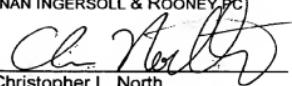
Respectfully submitted,

BUCHANAN INGERSOLL & ROONEY PC

Date

April 9, 2007

By:


Christopher L. North
Registration No. 50433

P.O. Box 1404
Alexandria, VA 22313-1404
703 836 6620

/Daniel Mccracken/

03/18/2010

Buchanan Ingersoll & Rooney pc

ATTORNEYS FOR INTELLECTUAL PROPERTY MATTERS

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.M./



04/09/2007

10594026 - GAU: 1793
Attorney's Docket No. 1034136-000036

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
Steven A. Stevenson) Group Art Unit: Unassigned
Application No.: 10/594,026) Examiner: Unassigned
Filed: September 25, 2006) Confirmation No.: Unassigned
For: METHOD OF MAKING MULTIPLE)
CARBONACEOUS NANOMATERIALS)

SECOND INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed. However, copies of the listed U.S. patents and U.S. patent application publications are not enclosed since it is no longer required according to the July 11, 2003 waiver of the requirement for copies of cited U.S. patents and U.S. patent application publications in national patent applications filed after June 30, 2003 and international applications entering the national stage under 35 U.S.C. § 371 after June 30, 2003.

U.S. PATENT DOCUMENTS

1. DORN et al., U.S. Patent Publication No. 2004/0054151 A1, published on March 18, 2004.
2. DORN et al., U.S. Patent No. 6,303,760 B1, issued on October 16, 2001.
3. KATORI et al., U.S. Patent Publication No. 2003/0031917 A1, published on February 13, 2003.
4. WHEWELL, U.S. Patent No. 5,269,953, issued on December 14, 1993.
5. KAJIURA et al., U.S. Patent Publication No. 2003/0015414 A1, published on January 23, 2003.
6. TAKIKAWA et al., U.S. Patent Publication No. 2002/0061638 A1, published on May 23, 2002.

/Daniel Mccracken/

03/18/2010

Buchanan Ingersoll & Rooney PC
Attorneys & Government Relations Professionals

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.M./

7. ANAZAWA et al., U.S. Patent Publication No. 2001/0050219 A1, published on December 13, 2001.
8. ZETTL et al., U.S. Patent No. 6,063,243, issued on May 16, 2000.
9. CRESPI et al., U.S. Patent Publication No. 2005/0067349 A1, published on March 31, 2005.
10. EKLUND, U.S. Patent No. 5,453,413, issued on September 26, 1995.
11. ATA et al., U.S. Patent No. 6,815,067 B2, issued on November 9, 2004.

FOREIGN PATENT DOCUMENTS

1. TENNE et al, International Publication No. WO 01/66676 A2, published on September 13, 2001.

NON-PATENT LITERATURE DOCUMENTS

1. IEZZI, ERICK B. ET AL., "A Symmetric Derivative of the Trimetallic Nitride Endohedral Metallofullerene, Sc₃N@C₈₀," J.AM.CHEM.SOC., 2002, pp. 524-525, Vol. 124, No. 4, American Chemical Society.
2. KRATSCHMER, W. ET AL., "Solid C₆₀: a new form of carbon," NATURE, 9/27/90, pp. 354-358, Vol. 347, Nature Publishing Group.
3. OLMSTEAD, MARILYN M. ET AL., "Isolation and Crystallographic Characterization of ErSc₂N@C₈₀: an Endohedral Fullerene Which Crystallizes with Remarkable Internal Order," J.AM.CHEM.SOC., 2000, pp. 12220-12226, Vol. 122, No. 49, American Chemical Society.
4. STONE, A.J. ET AL., "Theoretical Studies of Icosahedral C₆₀ and Some Related Species," Chem. Physics Ltrs., 8/8/86, pp. 501-503, Vol. 128, No. 5,6, Elsevier Science Publishers B.V.
5. TRULOVE, S. "Filled buckyballs - diamonds from soot," article from website <http://www.research.vt.edu/resmag/2002winter/buckyballs.html>, 9 March 2002 (09.03.2002), available at www.archive.org. (entire document).
6. NAGASE et al., Chapter 9: Endohedral metallofullerenes: theory, electrochemistry, and chemical reactions, Chemistry, Physics and Technology (Kadish and Ruoff, eds.), 2000, John Wiley and Sons, pp. 395-429.
7. JOURNET et al., "Large-scale production of single-walled carbon nanotubes by the electric-arc technique," *Nature*, 1997, vol. 388, pp. 756-758, American Association for the Advancement of Science, Washington, D.C.

/Daniel Mccracken/

03/18/2010

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.M./

8. SAITO et al., "Single-Layered Carbon Nanotubes Synthesized by Catalytic Assistance of Rare-Earths in a Carbon Arc," *J. Phys. Chem.*, 1995, vol. 99, pp. 16076-16079, American Chemical Society, Washington, D.C.

9. WILSON et al., "Advanced materials: fluorous fullerenes and nanotubes," *Tetrahedron*, 2002, vol. 58, pp. 4041-4047, Elsevier Science Ltd.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since these documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b), no fee or statement is required.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BUCHANAN INGERSOLL & ROONEY PC

Date: April 9, 2007

By:



Christopher L. North
Registration No. 50,433

P.O. Box 1404
Alexandria, VA 22313-1404
703 836 6620

/Daniel Mccracken/

03/18/2010

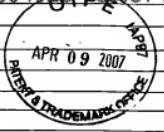
ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.M./

Substitute for form 1449/PTO & 1449B/PTO

**SECOND
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(use as many sheets as necessary)

Complete if Known

Application Number	10/594,026
Filing Date	September 25, 2006
First Named Inventor	Steven A. Stevenson
Examiner Name	Unassigned
Attorney Docket No.	1034136-00036



Sheet 1 of 2

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	2004/0054151	A1	Dorn et al.	03-18-2004
	6,303,760	B1	Dorn et al.	10-16-2001
	2003/0031917	A1	Katori et al.	02-13-2003
	5,269,953		Whewell	12-14-1993
	2003/0015414	A1	Kajura et al.	01-23-2003
	2002/0061638	A1	Takikawa et al.	05-23-2002
	2001/0050219	A1	Anazawa et al.	12-13-2001
	6,063,243		Zettl et al.	05-16-2000
	2005/0067349	A1	Crespi et al.	03-31-2005
	5,453,413		Eklund	09-26-1995
	6,815,067	A	Ata et al.	11-09-2004

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	STATUS				
					Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER
	01/66676	A2	International	09-13-2001				X	

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	IEZZI, ERICK B. ET AL., "A Symmetric Derivative of the Trimetallic Nitride Endohedral Metallofullerene, Sc ₃ N@C ₆₀ ," J.AM.CHEM.SOC., 2002, pp. 524-525, Vol. 124, No. 4, American Chemical Society
	KRATSCHMER, W. ET AL., "Solid C ₆₀ : a new form of carbon," NATURE, 9/27/90, pp. 354-358, Vol. 347, Nature Publishing Group
	OLMSTEAD, MARILYN M. ET AL., "Isolation and Crystallographic Characterization of ErSc ₂ N@C ₆₀ : an Endohedral Fullerene Which Crystallizes with Remarkable Internal Order," J.AM.CHEM.SOC., 2000, pp. 12220-12226, Vol. 122, No. 49, AmericanChemical Society
	STONE, A. J. ET AL., "Theoretical Studies of Icosahedral C ₆₀ and Some Related Species," Chem. Physics Ltrs., 8/8/86, pp. 501-503, Vol. 128, No. 5,6, Elsevier Science Publishers B.V.
	TRULOVE, "Filled buckyballs - diamonds from soot," article from website http://www.research.vt.edu/resmag/2002winter/buckyballs.html , 9 March 2002 (09.03.2002), available at www.archive.org . (entire document).
	NAGASE et al., Chapter 9: Endohedral metallofullerenes: theory, electrochemistry, and chemical reactions, of Fullerenes: Chemistry, Physics and Technology (Kadish and Ruoff, eds.), 2000, John Wiley and Sons, pp. 394-429.
	JOURNET et al., "Large-scale production of single-walled carbon nanotubes by the electric-arc technique," Nature, 1997, vol. 388, pp. 756-758, American Association for the Advancement of Science, Washington, D.C.
	SAITO et al., "Single-Layered Carbon Nanotubes Synthesized by Catalytic Assistance of Rare-Earths in a Carbon Arc," J. Phys. Chem., 1995, vol. 99, pp. 16076-16079, American Chemical

Examiner Signature	/Daniel Mccracken/	Date Considered	03/18/2010	/Daniel Mccracken/
--------------------	--------------------	-----------------	------------	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.M./

Receipt date: 04/09/2007

10594676-GAU: 1793

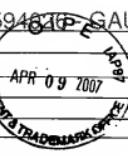
Substitute for form 1449/PTO & 1449B/PTO

SECOND
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
 (use as many sheets as necessary)

Complete if Known

Application Number	10/594,026
Filing Date	September 25, 2006
First Named Inventor	Steven A. Stevenson
Examiner Name	Unassigned
Attorney Docket No.	1034136-00036

Sheet 2 of 2

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
Society, Washington, D.C.	
WILSON et al., "Advanced materials: fluorous fullerenes and nanotubes," <i>Tetrahedron</i> , 2002, vol. 58, pp. 4041-4047, Elsevier Science Ltd.	

Examiner Signature	/Daniel Mccracken/	Date Considered	03/18/2010	/Daniel Mccracken/
--------------------	--------------------	-----------------	------------	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.M./